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## NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

02/17/2004

Derek S. Jennings. Intellectual Property Law Dept. IBM Corporation P.O. Box 218 Yorktown Heights, NY 10598 EXAMINER

TON, ANABEL

PAPER NUMBER

ART UNIT

DATE MAILED: 02/17/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/778,142	02/07/2001	Yoshimoto Ishikawa	JP919990298US1	8589

TITLE OF INVENTION: ILLUMINATING-LIGHT CONTROLLER, PROJECTOR, AND ILLUMINATING-LIGHT CONTROL METHOD

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$300	\$1630	05/17/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- ☐ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing n applications filed n or after Dec. 12, 1980 may require payment f maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

02/17/2004

Mail Stop ISSUE FEE C mmissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

(703) 746-4000 r <u>Fax</u>

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)

7590

Derek S. Jennings. Intellectual Property Law Dept. **IBM** Corporation P.O. Box 218 Yorktown Heights, NY 10598

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO, on the date indicated below.

	<u> </u>
(Depositor's name)	
(Signature	
(Date	

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nonprovisional	NO	\$1330		\$300	\$1630	05/17/2004
EXAMINER		ART UNIT		CLASS-SUBCLASS	]	
TON, ANABEL		2875		362-238000		
1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).			2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or 2			
☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.						
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			d the names of up to 2 regists or agents. If no name is listed inted.			

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or cat	egories (will not be printed on the patent);	individual	☐ corporation or other private group entity	government	
4a. The following fee(s) are enclosed:	4b. Payment of Fee(s):				
☐ Issue Fee	☐ A check in the amo	unt of the fee(s)	is enclosed.		
□ Publication Fee	☐ Payment by credit	edit card. Form PTO-2038 is attached.			
☐ Advance Order - # of Copies	☐ The Director is he Deposit Account Nun	reby authorized iber	by charge the required fee(s), or credit any (enclose an extra copy of this	overpayment, to s form).	
Director for Patents is requested to apply the Issue Fe	e and Publication Fee (if any) or to re-apply	any previously p	oaid issue fee to the application identified abo	ove.	
(Authorized Signature)	(Date)				
NOTE; The Issue Fee and Publication Fee (if req other than the applicant; a registered attorney or interest as shown by the records of the United States	agent; or the assignee or other party in				
This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Alexandria, Virginia 22313-1450.					
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7:	590 02/17/2004		EXAM	INER	
	Derek S. Jennings.			TON, ANABEL	
Intellectual Propert IBM Corporation	ty Law Dept.		ART UNIT	PAPER NUMBER	
P.O. Box 218			2875		
Yorktown Heights, NY 10598			DATE MAILED: 02/17/200-	4	

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 258 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 258 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

	Application No.	Applicant(s)
	дриканоп но.	
Notice of Allowability	09/778,142 Examin r	ISHIKAWA ET AL. Art Unit
, rouge of , memasmy	Examin 1	Artomit
	Anabel M Ton	2875
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in to or other appropriate commure GHTS. This application is su	this application. If not included nication will be mailed in due course. <b>THIS</b>
1. This communication is responsive to <u>11/10/03</u> .		
2. The allowed claim(s) is/are <u>1-19</u> .		
3. $\boxtimes$ The drawings filed on <u>02 August 2001</u> are accepted by the	Examiner.	
<ul> <li>4.  Acknowledgment is made of a claim for foreign priority una)  All b)  Some* c)  None of the:  1.  Certified copies of the priority documents have  2.  Certified copies of the priority documents have  3.  Copies of the certified copies of the priority documents have  International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:  Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.</li> <li>5.  A SUBSTITUTE OATH OR DECLARATION must be submit</li> </ul>	been received.  been received in Application cuments have been received of this communication to file a ENT of this application.	No in this national stage application from the a reply complying with the requirements MINER'S AMENDMENT or NOTICE OF
INFORMAL PATENT APPLICATION (PTO-152) which give		declaration is deficient.
<ol> <li>CORRECTED DRAWINGS (as "replacement sheets") mus</li> <li>(a) including changes required by the Notice of Draftspers</li> </ol>		( PTO-948) attached
1) hereto or 2) to Paper No./Mail Date		(1 10 040) attached
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date		n the Office action of
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the	84(c)) should be written on the ne header according to 37 CFR	drawings in the front (not the back) of . 1.121(d).
7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT!	sit of BIOLOGICAL MATE FOR THE DEPOSIT OF BIOI	RIAL must be submitted. Note the LOGICAL MATERIAL.
<ul> <li>Attachment(s)</li> <li>1. ☑ Notice of References Cited (PTO-892)</li> <li>2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)</li> <li>3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 0601</li> <li>4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material</li> </ul>	6. Interview Sur Paper No./M 8), 7. Examiner's A	Mail Date  Amendment/Comment  Statement of Reasons for Allowanc

Application/Control Number: 09/778,142 Page 2

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### **DETAILED ACTION**

# Allowable Subject Matter

1. Claims 1-19 are allowed.

2. The following is an examiner's statement of reasons for allowance: The prior art cited, although disclosing two light sources and single micro-mirror/dmd or array of micro-mirror/dmd and a controlling section for providing illumination to a projection device, the prior art does not disclose a first and second light source and a single micro mirror type light modulator where the dmd in the modulator tilts at a first angle when receiving light from the first light source consequently projecting the light onto a corresponding area and the dmd in the modulator tilting and a second angle when receiving light from the second light source consequently projecting light onto the corresponding area in combination also with a control section for controlling the first and second light emitting from the first and second light source respectively.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anabel M Ton whose telephone number is (571) 272-2382. The examiner can normally be reached on 08:00-16:30.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sandra O'Shea can be reached on (571) 272-2378. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Anabel M Ton Examiner Art Unit 2875

Sandra O'Shaa Supervisory Patent Examiner Technology Center 2800

AMT